

Purchase Order Receipt Listing

Tuesday, August 01, 2017 2:41:39 PM

All amounts are calculated in domestic currency.

All Vendors PO ID PO36986 Receipt Dates from 8/1/2017 to 8/1/2017 All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID \ Vendor Name VU-MET002 A.M. Castle & Co. (Canada) Inc.- C/O 910720											
PO36986	1		D6101-007P	Each	7/28/2017	8/1/2017	20.0000		0.0000	0	\$0.00
USD	No		7075-T7351	Each	20.0000	PLOU01			0.0000	0	
			8.25X7.75X2.5								
			m138202/164013								
	5		M7075T6S1.250X10. f	DAS 5	7/28/2017	8/1/2017	12.0000		0.0000	0	\$0.00
			1.250" THICK x	9-89							
	No		10.000" WIDE		12.0000	PLOU01			0.0000	0	
			m138202/164013								
	6		M7075T6S1.250X12. f	DAS 5	7/28/2017	8/1/2017	12.0000		0.0000	0	\$0.00
			1.250" THICK x	9-89							
	No		12.000" WIDE		12.0000	PLOU01			0.0000	0	
			m138202/164013								
	10		M7075T6S3.000X4.0 f	DAS 5	7/28/2017	8/1/2017	12.0000		0.0000	0	\$0.00
			3.000" thick x 4.000"	9-89							
	No		wide		12.0000	PLOU01			0.0000	0	
			m138202/164013								

Total Received Quantity: 56.0000
Total Qty to Inspect (PO U/M): 0.0000
Total Reject Quantity: 0.0000
Total Receipt Value: \$0.00
Total Balance Due Quantity: 0.0000

m7075+6B3.000X4.000 CD AUG 15 2017
Acceptable as m7075+6B 4/17/8 DAS 12 9-89

**Castle Metals®**

A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 1 of 1

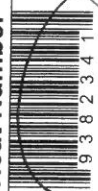
Shipment No:3344442

Ship From: A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN		Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
Date Shipped 31-JUL-17	F.O.B. ORIGIN	Freight Terms Prepaid	Carrier LOCAL_FLEET	BOL No 3344442-4

Shipment Details		Final Destination Branch - TOR
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Order No 4823222	Line No 1	Item No 752114.MO	Description 1.2500.PL.7075.T651.ALUMINUM.USI.48.5000.144.5000 CUT LENGTH TO 12 IN () X 144.5 IN (+ .1250/- .0000 IN) - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12
Purchase Order No 36986	Part Number	Ordered Qty 1.00 PCS	Invoice Qty 1.00 PCS

Details ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS			
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Delivery No. 121204882	Mill	Heat Number  93823411	Mech Id 1	PCS 1	Width (IN)	Length (IN)	Shipped Qty(LBS) 224.3464
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We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.			
Reviewed by Authorized Castle Metals Representative:			



SHIPPED JUL 31 2017

Name: *M. Randen*

Date:

Date Printed: 31-JUL-2017 02:44:09 PM

**Castle Metals®**

A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No:3344442

Ship From: A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN		Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN CA	Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
Date Shipped 31-JUL-17	F.O.B. ORIGIN	Freight Terms Prepaid	Carrier LOCAL_FLEET	BOL No 3344442-4

Shipment Details	Final Destination Branch - TOR
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Order No 4823222	Line No 6	Item No 21391	Description 3.0000.4.0000.RECT.7075.T651.ALUMINUM.CF.144.0000 SPECIFICATIONS: AMS-QQ-A-225/9
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Purchase Order No 36986	Part Number	Ordered Qty 12.00 FT	Invoice Qty 12.0000 FT
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Details	ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS
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Delivery No. 121190997	Mill ARCONIC INC	Heat Number DAS 5 MMA 201150736119-89	Mech Id 1	PCS 1	Width (IN)	Length (IN) 144.0000	Shipped Qty(LBS) 174.2520
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We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.	
Reviewed by Authorized Castle Metals Representative:	

SHIPPED JUL 31 2017	Date:	Name: M. Rander
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Date Printed: 31-JUL-2017 02:44:09 PM

**Castle Metals®**

A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 1 of 2

Shipment No:33444442


Ship From: A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN		Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
Date Shipped	F.O.B.	Freight Terms	Carrier	BOL No
31-JUL-17	ORIGIN	Prepaid	LOCAL_FLEET	3344442-4

Shipment Details	Final Destination Branch - TOR
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Order No 4823222	Line No 7	Item No 752241.MO	Description 2.5000.PL.7075.T7351.ALUMINUM.USI.48.5000.144.5000 CUT 2SIDED TO 8.25 IN (+ .0310/- .0000 IN (GRAIN TO RUN ALONG 7.75")) X 7.75 IN (+ .0310/- .0000 IN (GRAIN TO RUN ALONG 7.75")) ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12
Purchase Order No 36986	Part Number YOUR ITEM NUMBER: D6101-007	Ordered Qty 20.00 PCS	Invoice Qty 20.00 PCS

Details

ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY
ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S
Email P/s and certs to: clavoie@artaero.com
END USER: DART AEROSPACE
END USE: COMMERCIAL AIRCRAFT PARTS

Delivery No. 121190924	Mill	Heat Number  938915311	Mech Id	PCS 20	Width (IN)	Length (IN)	Shipped Qty(LBS) 330.6337
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We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Date Printed: 31-JUL-2017 02:44:09 PM



Castle Metals®

A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 2 of 2

Reviewed by Authorized Castle Metals Representative:

Date: Name:



SHIPPED JUL 31 2017

M. Rander

SP-81

**INTERORG TRANSFER
PACKING SLIP/
CERTIFICATE OF CONFORMANCE**

Page 1 of 2

ABF 086 595 354

Shipment No: 3338276

Ship From: A. M. CASTLE & CO. 4175 ROYAL DRIVE SUITE 600 KENNESAW, GA 30144 USA		Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	Ship To: A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN	Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
Date Shipped 24-JUL-17	F.O.B. ORIGIN	Freight Terms Prepaid	Carrier ABF	BOL No 3338276-2

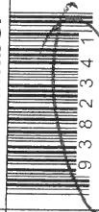
Shipment Details

Order No	Line No	Item No	Description	Ordered Qty	Invoice Qty
4823222	8	752114.MO	1.2500.PL.7075.T651.ALUMINUM.USI.48.5000.144.5000 CUT LENGTH TO 10 IN (+ .1250/- .0000 IN) X 144.5 IN () ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12	1.00 PCS	1.00 PCS

Purchase Order No 36986

Details

ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY
ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S
Email P/s and certs to: clavoie@dartaero.com
END USER: DART AEROSPACE
END USE: COMMERCIAL AIRCRAFT PARTS

Delivery No. 121204882	Mill	Heat Number 	Mech Id PCS	Width (IN)	Length (IN)	Shipped Qty(LBS) 186.9553
		DAS 5 9-89	1			

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

Date Printed: 24-JUL-2017 01:43:52 PM

INTERORG TRANSFER PACKING SLIP/ CERTIFICATE OF CONFORMANCE

Page 2 of 2

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.	
Reviewed by Authorized Castle Metals Representative:	
7/24/17	Date: 5-11-18
Name: Smith	



807-8-21

B3-8-2

Constellium


CERTIFIED TEST REPORT
 Constellium Rolled Products
 Ravenswood, LLC

SHIP TO


A M CASTLE & COMPANY

 4175 ROYAL DRIVE
 KENNESAW GA
 30144
 US

SOLD TO

A M CASTLE

 1420 KENSINGTON ROAD, SUITE 220
 OAK BROOK IL
 60523
 US

A M CASTLE		110502703		4075		INCLUSION		Serial:20170220-0110502703		Pg 1of2	
CUSTOMER PURCHASE ORDER NO. & ITEM 410933						Constellium ORDER NO. 196570					
ALLOY 7075	CLAD	TEMPER T651	GAUGE 1.25000 in 31.75 mm	WIDTH 48.50000 in 1.232 mm	LENGTH 144.50000 in 3.670 mm	CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA  Steve Good - Laboratory Manager					
ITEM ORDERED SPEC PLATE, SAWED MILL FINISH											
CUSTOMER SPECIFICATION AMS 4045K											
PART NUMBER 752114		B/L NUMBER 75896		DATE SHIPPED 02/21/2017							
WT. SHIPPED 2670.000 LB		NO. OF PIECES 000003		GOVT. CONTRACT NO.							

ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS:

ASTM B594 REV 13 2013 100% SONIC W/ 0.125" DEADZONE Class A
 AMS QQ-A-250/12A
 AMS STD-2154A 2012 TYPE1 CLASS A 100% SONIC MINUS DEADZONE
 ASTM B209-14
 BSS-7055B 2013 CLASS A 100% SONIC TESTED MINUS DEADZONE
 CMMP025 REV U
 CSTI006 REV E 2011 CLASS A 100% SONIC MINUS DEADZONE
 DPS 4 713 REV AK 2012 CLASS A 100% SONIC MINUS DEADZONE
 GAMPS 9101 REV B 2006 CLASS A 100% SONIC MINUS DEADZONE
 PS 21211P 2010 CLASS A 100% SONIC MINUS DEADZONE

Load Details

Package	Net Lbs	Kg	Lot	Piece	Serial	Parent Lot
1001453411	890.000	403.697	9382341	DAS1		
1001453411	890.000	403.697	9382341	502		
1001453411	890.000	403.697	9382341	9-8903		

Lot: 9382341
Tensile - Room Temperature (US)

		Ultimate (KSI)		Yield (KSI)		Elongation (%)		Report
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	81.3	81.6	71.5	71.8	13.0	13.0	

Constellium



CERTIFIED TEST REPORT Constellium Rolled Products Ravenswood, LLC

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A M CASTLE & COMPANY


4175 ROYAL DRIVE
KENNESAW GA
30144
US

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O

A M CASTLE

1420 KENSINGTON ROAD, SUITE 220
OAK BROOK IL
60523
US

A M CASTLE 110502703 4075 INCLUSION Serial:20170220-0110502703 Pg 2of2

CUSTOMER PURCHASE ORDER NO. & ITEM 410933				Constellium ORDER NO. 196570		CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA  Steve Good - Laboratory Manager	
ALLOY 7075	CLAD	TEMPER T651	GAUGE 1.25000 in 31.75 mm	WIDTH 48.50000 in 1,232 mm	LENGTH 144.50000 in 3,670 mm		
ITEM ORDERED SPEC PLATE, SAWED MILL FINISH							
CUSTOMER SPECIFICATION AMS 4045K							
PART NUMBER 752114		B/L NUMBER 75896		DATE SHIPPED 02/21/2017			
WT. SHIPPED 2670.000 LB		NO. OF PIECES 000003		GOVT. CONTRACT NO.			

Tensile - Room Temperature (SI)							
		Ultimate (N/MM2)		Yield (N/MM2)		Elongation (%)	
Direction	Tests	Min	Max	Min	Max	Min	Max
LT	02	561	563	493	495	13.0	13.0

Chemistry (Actual)									
	SI	FE	CU	MN	MG	CR	ZN	TI	ZR
Core	0.06	0.17	1.52	0.03	2.58	0.21	5.58	0.04	0.01

OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER

All material contained in this lot was cast and manufactured in the USA

QUALITY TEXTS:
AMC CA 15403A R 7

THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

CHEMISTRY BY OES: ARKSPARK

CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT

WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399

WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8; B557

DUNS Number: 090570149; CAGE Code: 1YW19

Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product.

"END OF CERTIFICATION"

B3-8-2

Constellium


CERTIFIED TEST REPORT
 Constellium Rolled Products
 Ravenswood, LLC

SHIP TO


A M CASTLE & COMPANY

 4175 ROYAL DRIVE
 KENNESAW GA
 30144
 US

SOLD TO

A M CASTLE

 1420 KENSINGTON ROAD, SUITE 220
 OAK BROOK IL
 60523
 US

A M CASTLE		110502703		4075		INCLUSION		Serial:20170220-0110502703		Pg 1of2	
CUSTOMER PURCHASE ORDER NO. & ITEM 410933						Constellium ORDER NO. 196570					
ALLOY 7075	CLAD	TEMPER T651	GAUGE 1.25000 in 31.75 mm	WIDTH 48.50000 in 1.232 mm	LENGTH 144.50000 in 3.670 mm		CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA  Steve Good - Laboratory Manager				
ITEM ORDERED SPEC PLATE, SAWED MILL FINISH											
CUSTOMER SPECIFICATION AMS 4045K											
PART NUMBER 752114		B/L NUMBER 75896		DATE SHIPPED 02/21/2017							
WT. SHIPPED 2670.000 LB		NO. OF PIECES 000003		GOVT. CONTRACT NO.							

ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS:

ASTM B594 REV 13 2013 100% SONIC W/ 0.125" DEADZONE Class A
 AMS QQ-A-250/12A
 AMS-STD-2154A 2012 TYPE1 CLASS A 100% SONIC MINUS DEADZONE
 ASTM B209-14
 BSS-7055B 2013 CLASS A 100% SONIC TESTED MINUS DEADZONE
 CMMP025 REV U
 CSTI006 REV E 2011 CLASS A 100% SONIC MINUS DEADZONE
 DPS 4 713 REV AK 2012 CLASS A 100% SONIC MINUS DEADZONE
 GAMPS 9101 REV B 2006 CLASS A 100% SONIC MINUS DEADZONE
 PS 21211P 2010 CLASS A 100% SONIC MINUS DEADZONE

Load Details

Package	Net Lbs	Kg	Lot	Piece	Serial	Parent Lot
1001453411	890.000	403.697	9382341	01		
1001453411	890.000	403.697	9382341	02		
1001453411	890.000	403.697	9382341	03		

Lot: 9382341

Tensile - Room Temperature (US)

		Ultimate (KSI)		Yield (KSI)		Elongation (%)		Report
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	81.3	81.6	71.5	71.8	13.0	13.0	

Constellium



CERTIFIED TEST REPORT

Constellium Rolled Products
Ravenswood, LLC

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A M CASTLE & COMPANY

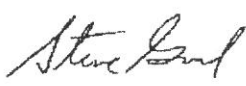
4175 ROYAL DRIVE
KENNESAW GA
30144
US

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D

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O

A M CASTLE

1420 KENSINGTON ROAD, SUITE 220
OAK BROOK IL
60523
US

A M CASTLE		110502703		4075		INCLUSION		Serial:20170220-0110502703		Pg 2of2	
CUSTOMER PURCHASE ORDER NO. & ITEM 410933						Constellium ORDER NO. 196570			CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA  Steve Good - Laboratory Manager		
ALLOY 7075	CLAD	TEMPER T651	GAUGE 1.25000 in 31.75 mm	WIDTH 48.50000 in 1,232 mm	LENGTH 144.50000 in 3,670 mm						
ITEM ORDERED SPEC PLATE, SAWED MILL FINISH											
CUSTOMER SPECIFICATION AMS 4045K											
PART NUMBER 752114			B/L NUMBER 75896		DATE SHIPPED 02/21/2017						
WT. SHIPPED 2670.000 LB		NO. OF PIECES 000003		GOVT. CONTRACT NO.							

Tensile - Room Temperature (SI)								
		Ultimate (N/MM2)		Yield (N/MM2)		Elongation (%)		Report
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	561	563	493	495	13.0	13.0	

Chemistry (Actual)									
	SI	FE	CU	MN	MG	CR	ZN	TI	ZR
Core	0.06	0.17	1.52	0.03	2.58	0.21	5.58	0.04	0.01

OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER

All material contained in this lot was cast and manufactured in the USA

QUALITY TEXTS:
AMC CA-15403A R.7

THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

CHEMISTRY BY OES: ARKSPARK

CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT

WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399

WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8; B557

DUNS Number: 090570149; CAGE Code: 1YW19

Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product.

"END OF CERTIFICATION"

P-860-155D REVISED: 10 2014

Certified Inspection Report

04/24/15
13:02:57

Alcoa Inc.

Massena Operations
Park Avenue East, Massena, NY 13662



Customer
Castle A M & Co

Customer P.O. No.
336828

Customer Part No.
(21391)

Alcoa Order No.
MMC-B5610-001

Govt. Contract No.

ALCOA

Ship To **A M Castle & Company**
3050 South Hydraulic
Wichita, KS 67216

We hereby certify that the material covered in this report has been inspected in accordance with, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, or as previously agreed to with customer and that samples representative of the material met the composition limits and have the mechanical properties shown on the face of this sheet. Manufactured under a quality management system registered to ISO 9001:2008 and AS9100. Melted and manufactured in the USA.

Steven F. Marsh, Quality Manager

Date Shipped **04/24/15**

Weight Shipped **876 lbs**

Product **CFRB-CF RECT**

Specific Length

BOL **000162890**

Alloy - Temper **7075-T651**

Size **3.00000 x 4.00000 IN**

Shape **REC**

Config **12 FT**

ORR

Specifications: A97075-40 Rev 15 w/exceptions & comments per Z. Wang email dtd 10/8/12

ASTM B21-12E1

AMS4123H

OD-A-225/9E

AMS-00-A-225/9A

Material conforms to 16 reqmts

TEST REQUIREMENTS

Test	Test	Test	Test	Test	Test	Test	Test	Test	Test
U.T.S.	T.Y.S.	%Elong							
Max:									
Min:									

Test Results

Lot / Mark	No. of Tests	Test	Test	Test	Test	Test	Test	Test	Test
MA20150736	1	U.T.S.	T.Y.S.	%Elong					
		Max: 083.9	76.9	14.0					
		Min: 083.9	76.9	14.0					

TEST ABBREVIATIONS

U.T.S. Ultimate Tensile Strength KSI

Aluminum Association Chemical Composition Limits (in Weight %)

T.Y.S. Tensile Yield Strength KSI .2% offset

%Elong Elongation % in 2"

ALLOY	%SI	%FE	%CU	%MN	%MG	%CR	%ZN	%TI	%Others	%Others	%AL
7075	MAX 0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.15	Rem
	MIN		1.2		2.1	0.18	5.1		Each	Total	

Actual Started Chemistry

LOT/WORK ORDER

MA20150736	%SI	%FE	%CU	%MN	%MG	%CR	%ZN	%TI	%OE	%OT	%AL
MAX	0.05	0.14	1.7	0.02	2.5	0.20	5.8	0.03	LT 0.05	LT 0.15	Rem
MIN	0.05	0.12	1.6	0.02	2.5	0.20	5.8	0.02			

NOTES:

Material compliant with DFARS 252.225-7001 (Buy American Act)
Mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product.
This alloy meets the requirements of EU 2011/65/EC (RoHS) and EU 2000/53/EC for lead, mercury, cadmium and hexavalent chromium.



Certified Inspection Report

04/24/15
13:02:57

ALCOA Inc.

Massena Operations
Park Avenue East, Massena, NY 13662



Customer
Castle A M & Co

Customer P.O. No.
336828

Customer Part No.
(21391)

ALCOA Order No.
MMC-B5610 -001

Govt. Contract No.

Ship To **A M Castle & Company**

**3050 South Hydraulic
Wichita, KS 67216**

We hereby certify that the material covered in this report has been inspected in accordance with, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, or as previously agreed to with customer and that samples representative of the material met the composition limits and have the mechanical properties shown on the face of this sheet. Manufactured under a quality management system registered to ISO 9001:2008 and AS9100. Melted and manufactured in the USA.

Steven F. Marsh, Quality Manager

Date Shipped **04/24/15**

Weight Shipped **876 lbs**

Product **CFRB-CF RECT Specific Length**

Alloy - Temper **7075-T651**

Size **3.00000 x 4.00000 IN**

Shape **REC** Config **12 FT**

BOL **000162890**
QRR

Specifications:

A97075-40 Rev 15 w/exceptions & comments
per Z. Wang email dtd 10/8/12
ASTM B21-12E1
AMS4123H
QQ-A-225/9E
AMS-QQ-A-225/9A
Material conforms to T6 reqmts

TEST REQUIREMENTS

Test	Test	Test	Test	Test	Test	Test	Test	Test	Test
U.T.S.	T.Y.S.	%Elong							
Max:									
Min:									

Test Results

Lot / Work Order	No. of Tests	Test	Test	Test	Test	Test	Test	Test	Test
MA20150736	1	U.T.S.	T.Y.S.	%Elong					
		Max:							
		Min:							

TEST ABBREVIATIONS

U.T.S. Ultimate Tensile Strength KSI

T.Y.S. Tensile Yield Strength KSI, 2% offset

Aluminum Association Chemical Composition Limits (in Weight %)

%Elong Elongation % in 2"

Alloy	%SI	%FE	%CU	%MN	%MG	%CR	%ZN	%TI	%Others	%Others	%AL
7075	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.15	Rem
	MIN		1.2		2.1	0.18	5.1		Each	Total	

Actual Started Chemistry

LOT/WORK ORDER

MA20150736	%SI	%FE	%CU	%MN	%MG	%CR	%ZN	%TI	%OE	%OT	%AL
MAX	0.05	0.14	1.7	0.02	2.5	0.20	5.8	0.03	LT 0.05	LT 0.15	Rem
MIN	0.05	0.12	1.6	0.02	2.5	0.20	5.8	0.02			

NOTES:

Material compliant with DEFARS 252.225-7001 (Buy American Act)
Mercury is not a normal contaminant in aluminum alloys and neither is any of its compounds are used in the manufacture of our product.
This alloy meets the requirements of EU 2011/65/EC (RoHS) and EU 2000/53/EC for lead, mercury, cadmium and hexavalent chromium.



B3-8-2

Constellium

Accredited
Nadcap
Materials Testing Laboratory

CERTIFIED TEST REPORT
Constellium Rolled Products
Ravenswood, LLC

SHIP TO

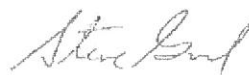
A M CASTLE & COMPANY

4175 ROYAL DRIVE
KENNESAW GA
30144
US

SOLD TO

A M CASTLE

1420 KENSINGTON ROAD, SUITE 220
OAK BROOK IL
60523
US

A M CASTLE		110502703		4075		INCLUSION		Serial: 20170220-0110502703		Pg 1 of 2	
CUSTOMER PURCHASE ORDER NO. & ITEM 410933						Constellium ORDER NO. 196570			CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA  Steve Good - Laboratory Manager		
ALLOY 7075	CLAD	TEMPER T651	GAUGE 1.25000 in 31.75 mm	WIDTH 48.50000 in 1.232 mm	LENGTH 144.50000 in 3.670 mm						
ITEM ORDERED SPEC PLATE, SAWED MILL FINISH											
CUSTOMER SPECIFICATION AMS 4045K											
PART NUMBER 752114			B/L NUMBER 75896		DATE SHIPPED 02/21/2017						
WT. SHIPPED 2670.000 LB		NO. OF PIECES 000003		GOVT. CONTRACT NO.							

ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS:

ASTM B594 REV 15 2013 100% SONIC W/ 0.125" DEADZONE Class A
 AMS QQ-A-250/12A
 AMS-STD-2154A 2012 TYPE 1 CLASS A 100% SONIC MINUS DEADZONE
 ASTM B209-14
 BSS-7055B 2013 CLASS A 100% SONIC TESTED MINUS DEADZONE
 CMMP025 REV U
 CST1006 REV E 2011 CLASS A 100% SONIC MINUS DEADZONE
 DPS 4 713 REV AK 2012 CLASS A 100% SONIC MINUS DEADZONE
 GAMP5 9101 REV B 2006 CLASS A 100% SONIC MINUS DEADZONE
 PS 21211P 2010 CLASS A 100% SONIC MINUS DEADZONE

Load Details

Package	Net Lbs	Kg	Lot	Piece	Serial	Parent Lot
1001453411	890.000	403.697	9382341	01		
1001453411	890.000	403.697	9382341	02		
1001453411	890.000	403.697	9382341	03		

Lot: 9382341

DAS
5

Tensile - Room Temperature (US)

		Ultimate (KSI)		Yield (KSI)		Elongation (%)		Report
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	81.3	81.6	71.5	71.8	13.0	13.0	

Constellium

Accredited
Nadcap
Material's Testing Laboratory

CERTIFIED TEST REPORT

Constellium Rolled Products
Ravenswood, LLC

S
H
I
P

T
O

A M CASTLE & COMPANY

4175 ROYAL DRIVE
KENNESAW GA
30144
US

S
O
L
D

T
O

A M CASTLE

1420 KENSINGTON ROAD, SUITE 220
OAK BROOK IL
60523
US

A M CASTLE 110502703 4075 INCLUSION Serial:20170220-0110502703 Pg 2of2

CUSTOMER PURCHASE ORDER NO. & ITEM
410933

Constellium ORDER NO.
196570

CERTIFICATION

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."
Constellium Rolled Products Ravenswood, LLC
859 Century Road
P.O. BOX 68
RAVENSWOOD, WV 26164 USA

ALLOY	CLAD	TEMPER	GAUGE	WIDTH	LENGTH
7075		T651	1.25000 in 31.75 mm	48.50000 in 1,232 mm	144.50000 in 3,670 mm

ITEM ORDERED
SPEC PLATE, SAWED
MILL FINISH

CUSTOMER SPECIFICATION
AMS 4045K

PART NUMBER
752114

B/L NUMBER
75896

DATE SHIPPED
02/21/2017

WT. SHIPPED
2870.000 LB

NO. OF PIECES
000003

GOVT. CONTRACT NO.



Steve Good - Laboratory Manager

Tensile - Room Temperature (SI)

		Ultimate (N/MM2)		Yield (N/MM2)		Elongation (%)		Report
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	561	563	493	495	13.0	13.0	

Chemistry (Actual)

	SI	FE	CU	MN	MG	CR	ZN	TI	ZR
Core	0.06	0.17	1.52	0.03	2.58	0.21	5.58	0.04	0.01

OTHERS-EACH: .05 MAX, OTHERS TOTAL: .15 MAX, AL REMAINDER

All material contained in this lot was cast and manufactured in the USA

QUALITY TEXTS:
AMC CA 15403A R 7

THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

CHEMISTRY BY OES: ARKSPARK

CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT

WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399

WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8; B557

DUNS Number: 090570149; CAGE Code: 1YW19

Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product.

"END OF CERTIFICATION"

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 170751651.250X10.000
 DATE: AUG 15 2017

PO / BATCH NO.: PO30986/M138202/164013

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250"
 THICKNESS RECEIVED: 1.238
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	AMS QQ A 250/12
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	HT #9382341
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 5</u> DATE: <u>AUG 15 2017</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE

SPECIFICATION: QQ-A-250/12 OR AMS-QQ-A-250/12
OR AMS 4046
OR ASTM B209

OR

PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE

SPECIFICATION: QQ-A-250/13 OR AMS-QQ-A-250/13
OR AMS 4048 / 4049
OR ASTM B209

PART NUMBER: M7075T6S | TTT | X | W.WWW |
| THK | | WIDTH |

WHERE "TTT" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M7075T6S.063
EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

PREFERRED SIZE: TTT BY 4FT BY 10FT FOR SHEET

RELEASED

2017 JUN 19
ECN 17-574

B	ADD-REF TO "PLATE" T651* TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CAR16-149)	CP	17.05.05
A	NEW ISSUE	RF	10.11.08
REV.	DESCRIPTION	BY	DATE
DESIGN	RF		
DRAWN	CP		
CHECKED	ML		
MFG. APPR.	LL		
APPROVED	WM		
DE APPR.	DS		
DATE	17.05.05		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M7075T6S			
REV. B			
SHEET 1 OF 1			
TITLE			
7075-T6 SHEET/PLATE SPEC			
SCALE			
NTS			
COPYRIGHT © 2009 BY DART AEROSPACE LTD. THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD. AND IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 170751651.250X12.000
 DATE: AUG 15 2017

PO / BATCH NO.: 0030986/M1382/164013

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250
 THICKNESS RECEIVED: 1.235
 SHEET SIZE ORDERED:
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>AMS QQA 250/12</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<u>77# 9382341</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u> DATE: <u>AUG 15 2017</u>	SIGNED OFF BY: _____ DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE
SPECIFICATION: QQ-A-250/12 OR AMS-QQ-A-250/12
OR AMS 4045
OR ASTM B209

OR

PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE
SPECIFICATION: QQ-A-250/13 OR AMS-QQ-A-250/13
OR AMS 4048 / 4049
OR ASTM B209

PART NUMBER: M7075T6S | TTT | X | W.WWW |
| THK | | WIDTH |

WHERE "TTT" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)
EG. 0.063" THICK SHEET = M7075T6S.063
EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

PREFERRED SIZE: .TTT BY 4FT BY 10FT FOR SHEET

RELEASED

2017 JUN 19
ECN 17-574

B	ADD. REF TO "PLATE", "T651" TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CART6-149)	CP	17.05.05
A	NEW ISSUE	RF	10.11.08
REV.	DESCRIPTION	BY	DATE
DESIGN	RF		
DRAWN	CP		
CHECKED	ML		
MFG. APPR.	LL		
APPROVED	WM		
DE APPR.	DS		
DATE	17.05.05		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M7075T6S			
SHEET 1 OF 1			
TITLE 7075-T6 SHEET/PLATE SPEC			
SCALE NTS			
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 17075 t6 B3,000x4,00

PO / BATCH NO.: PO36986/M138002/164013

DATE: AUG 16 2017

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 3"x4"
 THICKNESS RECEIVED: 3"x4"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/>	N	
CORROSION	Y	<input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/>	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/>	N	AMS QQ 4225/9
CORRECT THICKNESS	<input checked="" type="radio"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/>	N	HT # MA20150736
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/>	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u> DATE: <u>9-89</u> <u>AUG 16 2017</u>		SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



DESIGN #	DRAWN BY LE	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED PH	APPROVED #	DRAWING NO. 7075T6B	REV. B SHEET 1 OF 1
DATE 06.11.24		TITLE 7075-T6 BAR	SCALE NTS
A	05.07.20	NEW ISSUE	
B	06.11.24	REMOVED "ROUND" FROM BAR DESCRIPTION	

RELEASED
06.11.24 #

PURCHASE MATERIAL: 7075-T6 (OR T651/ T6510/ T6511/ T62) ALUMINUM BAR
PER AMS-QQ-A-225/9 (OR AMS 4122/ 4123/ 4186/ 4187) OR
PER AMS-QQ-A-200/11 DAS

5
g-89

PART NUMBER: M7075T6B

T.TTT	X	WW.WWW
THICK		WIDTH

WHERE T.TTT = THICKNESS IN INCHES
WW.WWW = WIDTH IN INCHES

EG. 1.0" x 1.5" BAR = M7075T6B1.000X01.500

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Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

Purchase Order ID PO36986

Purchase Order Date 7/11/2017
PO Print Date 7/11/2017

Page Number 1 of 5

Order From :

METAUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W OE9
CANADA

VU-MET002

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED
JUL 12 2017

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

Ship Acct:

FedEx PI collect

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

Destination-Collect

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	D6101-007P AS PER DWG D6101 REV. B B164013 MATERIAL: 7075-T7351 (QQ-A-250/12) SIZE: 7.750" X 8.250" X 2.50" THICK GRAIN DIRECTION ALONG: 7.750" LENGTH TOLERANCE AS PER QUOTE +.030"/-.000"	7075-T7351 8.25X7.75X2.5	7/28/2017 Yes 7/28/2017		20.00 Each	\$56.11	\$1,122.20
3	D6102-013P AS PER DWG D6102 REV. D B164014 SIZE: 7.000" X 6.500" X 2.00" THICK GRAIN DIRECTION ALONG 6.500" MATERIAL 6061-T6/T6511 QQ-A-250/11 TOLERANCE AS PER QUOTE +.030"/-.000"	6061-T6 7.0X6.5X2.0	7/28/2017 Yes 7/28/2017		60.00 Each	\$31.65	\$1,899.00
Line Total:							\$1,122.20

Note:

7/11/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO36986**

Purchase Order Date 7/11/2017

PO Print Date 7/11/2017

Page Number 2 of 5

Order From :
METAUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W OE9
CANADA

VU-MET002

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

FedEx PI collect

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

Destination-Collect

Line Total: \$1,899.00

4 D6104-007P

17-4 SS Roundbar 4.50"Od

7/28/2017

Yes

7/28/2017

10.00

Each

\$68.53

\$685.30

AS PER DWG D6104 REV. B
B164015

MATERIAL: 17-4 PH AS PER AMS 4643 OR AISI 630
SIZE: 4.50" X 5.10" LONG

Line Total: \$685.30

5 M7075T6S1.250X10.000

7075-T6S Sheet 1.250"
THICK x 10.000" WIDE

7/28/2017 FN

Yes

7/28/2017

12.00

f

\$76.40

\$916.80

MAT'L 7075-T6/T62 ALUMINUM SHEET
SPECS QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR PER ASTM B209

MAT'L 7075-T6/T62 ALCLAD ALUMINUM SHEET
SPECS QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4049 OR PER ASTM B209

Line Total: \$916.80

Note:

7/11/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO36986

Purchase Order Date 7/11/2017

PO Print Date 7/11/2017

Page Number 3 of 5

Order From :
METAUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W OE9
CANADA

VU-MET002

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone

Ship To Contact
Ship To Phone
Ship Via:
Ship Acct:

FedEx PI collect

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency USD
FOB Destination-Collect

6	M7075T6S1.250X12.000	7075-T6S Sheet 1.250" THICK x 12.000" WIDE	7/28/2017 FN	12.00	\$86.42	\$1,037.04
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Yes

7/28/2017

MAT'L 7075-T6/T62 ALUMINUM SHEET
SPECS QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR PER ASTM B209

MAT'L 7075-T6/T62 ALCLAD ALUMINUM SHEET
SPECS QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4049 OR PER ASTM B209

8017-8-1

Line Total: \$1,037.04

7	M7075T6S2.000X6.000	7075-T6S Sheet 2.000" THICK x 6.000" WIDE	7/28/2017 FN	12.00	\$71.35	\$856.20
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Yes

7/28/2017

MAT'L 7075-T6/T62 ALUMINUM SHEET
SPECS QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR PER ASTM B209

MAT'L 7075-T6/T62 ALCLAD ALUMINUM SHEET
SPECS QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4049 OR PER ASTM B209

Line Total: \$856.20

Note:

7/11/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO36986

Purchase Order Date 7/11/2017

PO Print Date 7/11/2017

Page Number 4 of 5

Order From :

METAUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W OE9
CANADA

VU-MET002

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

Ship Acct:

FedEx PI collect

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

Destination-Collect

8	M7075T6S3.000X2.750	7075-T6S Sheet 3.000" thick x 2.750" wide	7/28/2017	12.00	\$52.42	\$629.04
		Yes	7/28/2017	f		

Line Total: \$629.04

9	M7075T6S1.750X4.500	M7075T6 SHEET 1.750 THICK X 4.500 WIDE	7/28/2017 FN	12.00	\$48.90	\$586.80
		Yes	7/28/2017	f		

MAT'L 7075-T6/T62 ALUMINUM SHEET
SPECS QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR PER ASTM B209

MAT'L 7075-T6/T62 ALCLAD ALUMINUM SHEET
SPECS QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4049 OR PER ASTM B209

Line Total: \$586.80

Note:

7/11/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO36986

Purchase Order Date 7/11/2017

PO Print Date 7/11/2017

Page Number 5 of 5

Order From :

METAUX CASTLE
P.O. BOX 4090 STN A
TORONTO, ONTARIO M5W OE9
CANADA

VU-MET002

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

FedEx PI collect

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

Destination-Collect

10	M7075T6S3.000X4.000	7075-T6S Sheet 3.000" thick x 4.000" wide	7/28/2017	FN	12.00	\$94.85	\$1,138.20
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Yes

7/28/2017

7075-T6 BAR ACCEPTABLE

MAT'L 7075-T6/T62 ALUMINUM SHEET
SPECS QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR PER ASTM B209

MAT'L 7075-T6/T62 ALCLAD ALUMINUM SHEET
SPECS QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4049 OR PER ASTM B209

Line Total: \$1,138.20

11	71401-45	Procurement Quality Clauses	7/28/2017		1.00	\$0.00	\$0.00
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No

7/28/2017

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

Line Total: \$0.00

PO Total: \$8,870.58

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 2

Change Date: 7/11/2017

Chantal Lavoie

From: Desbiens, Marc <mdesbien@amcastle.com>
Sent: Monday, July 10, 2017 3:49 PM
To: Chantal Lavoie
Subject: RE: quote

Hi Chantal,

7075-t6 sheet or bar 1.250" x 10" x 12 ft

\$ 76.40 Ft 2-3 weeks (plate)

Thanks

Marc Desbiens
Inside sales representative
Castle Metals, Montreal, QC
Direct line 514-795-8176
1-800-806-6660 ext 52226
Fax # 1-855-892-6370
Customized Supply Chain Solutions for Your Metal Needs

From: Desbiens, Marc [mailto:mdesbien@amcastle.com]
Sent: Monday, July 10, 2017 1:02 PM
To: Chantal Lavoie <clavoie@dartaero.com>
Subject: RE: quote

Hi Chantal,

price and delivery on material.

7075-T6 SHEET OR BAR 1.250" X 12" X 12 FT \$ 86.42 Ft 2-3 weeks
7075-T6 SHEET OR BAR 2" X 6" X 12 FT \$ 71.35 Ft 2-3 weeks
7075-T6 SHEET OR BAR 2.750" X 2.750" X 12 FT Offer 3" x 2.750" \$ 52.42 Ft 2-3 weeks
~~7075-T6 SHEET OR BAR 1.250" X 6" X 12 FT \$ 45.92 Ft 2-3 weeks~~
7075-T6 SHEET OR BAR 1.750" X 4.500" X 12 FT \$ 48.90 Ft 2-3 weeks

7075-T6 SHEET OR BAR 3" X 4" X 12 FT (bar) \$ 94.85 Ft 2 weeks

Thanks

Marc Desbiens
Inside sales representative